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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/673,217	10/13/2000	Yoshiaki Tomotake	2000-1428A	3623
. 7:	590 03/18/2004		EXAM	INER
Wenderoth Lind & Ponack			FERGUSON, LAWRENCE D	
Suite 800			·	
2033 K Street N	١W		ART UNIT	PAPER NUMBER
Washington, D	OC 20006		1774	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/673,217	TOMOTAKE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Lawrence D Ferguson	1774	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	with the correspondence address	S
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b). Status	1. 1.136(a). In no event, however, may eply within the statutory minimum of od will apply and will expire SIX (6) N ute. cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this commun ABANDONED (35 U.S.C. § 133).	nication.
1) Responsive to communication(s) filed on <u>13</u>			
,	nis action is non-final.	atters, presenting as to the maj	rito io
3) Since this application is in condition for allow closed in accordance with the practice under			1115 15
Disposition of Claims			
4) Claim(s) 9-12 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 9-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and are subject to restriction and are subject to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) filed on is/are: a) are subjected to by the Examination of the drawing(s) are subjected to by the Examination of the drawing(s) are subjected to by the Examination of t	rawn from consideration. I/or election requirement. ner. ccepted or b) objected ne drawing(s) be held in abe	/ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life.	ents have been received. ents have been received in riority documents have be eau (PCT Rule 17.2(a)).	n Application No en received in this National Stag	ge
Attachment(s)	Λ 🗖 1-4 i-	ov Summany (PTO 412)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/(Paper No(s)/Mail Date 	Paper I	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO-152 	2)

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DETAILED ACTION

Response to Amendment

This action is in response to the amendment mailed November 13, 2003.
 Claims 9-12 are pending.

Claim Rejections – 35 USC § 103(a)

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiya et al. (U.S. 4,758,461) in view of Suenaga et al. (U.S. 6,133,170).
- 4. Akiya discloses an ink jet recording paper having excellent ink absorptivity (column 1, lines 6-10) and enhanced coloring density (column 6, lines 21-22). Akiya discloses an ink jet recording paper having excellent ink absorptivity (column 1, lines 6-10) and enhanced coloring density (column 6, lines 21-22). Akiya discloses the recording paper comprises pulp such as LBKP and NBKP (column 3, lines 58-61) which are hardwood bleached kraft pulp and softwood bleached draft pulp, respectively. The reference discloses the paper is coated (column 31-40 and column 4, lines 33-38) which is not applied for improving ink absorption. Akiya does not disclose the liquid transfer

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length in the Bristow method as being 100 mm or less. The determination of the liquid transfer length by Bristow's method is according to J. Tappi No. 51-87 is a product by process limitation. "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 227 USPQ 964, 966.

Akiya does not show that the ink jet recording paper has a weight percent of the mercerized pulp as in instant claim 9. However, such weight percentage is a property which can be easily determined by one of ordinary skill in the art. With regard to the limitation of the weight percent, absent a showing of unexpected results, it is obvious to modify the conditions of a composition because they are merely the result of routine experimentation. The experimental modification of prior art in order to optimize operation conditions (e.g. weight percentage) fails to render claims patentable in the absence of unexpected results. The aforementioned limitation is optimizable as it directly affects the integrity and resiliency of the recording paper. As such, they are optimizable. It would have been obvious to one of ordinary skill in the art to make the recording paper with the limitations of the weight percentage since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 USPQ 215 (CCPA 1980). Akiya does not explicitly disclose. mercerized pulp. Suenaga teaches a recording paper (column 9, lines 17-26)

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comprising bleached mercerized pulps (column 7,lines 1-6). Akiya and Suenaga are analogous art because they are both from the same field of recording papers. It would have been obvious to one of ordinary skill in the art to mercerize the pulp of Akiya because Suenaga teaches mercerizing the pulp material reduces the density of the recording paper (column 7, lines 6-8).

Response to Arguments

5. Arguments to rejection made under 35 U.S.C. 103(a) as being unpatentable over Akiya et al. (U.S. 4,758,461) are most based on grounds of new rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence Ferguson whose telephone number is 571-272-1522. The examiner can normally be reached on Monday through Friday 9:00 AM – 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Art Unit: 1774

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence D. Ferguson

Examiner Art Unit 1774